Neil D. Gordon, Ph.D.

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EDUCATION

PhD, Oceanography, 2008
Scripps Institution of Oceanography, University of California, San Diego
Advisor: Joel R. Norris

Master of Science, Earth Sciences, 2003
Scripps Institution of Oceanography, University of California, San Diego
Advisor: Joel R. Norris

Bachelor of Science, Mathematics and Geophysical Sciences, 2000
University of Chicago

PROFESSIONAL EXPERIENCE

Postdoctoral Researcher, January 2011–Present
Program for Climate Model Diagnosis and Intercomparison, Lawrence Livermore National Laboratory
Supervisor: Stephen Klein
Examine cloud feedbacks across climate models.

Research Fellow, April 2008–December 2010
Natural Environment Research Council (NERC)-funded position
School of Earth and Environment, University of Leeds
Supervisor: Piers Forster
Quantify climate feedbacks using satellite data and radiative transfer models.

Research Assistant, August 2000–August 2001
Lamont-Doherty Earth Observatory, Columbia University
Supervisor: Mark Cane
Assisted with research on heat transport within the climate system using global climate models.

TEACHING EXPERIENCE

Case Study Leader, autumn term 2009
Policy for Health and Development
University of Leeds
Module manager: Maye Omar

Co-instructor, spring term 2009
Earth Observations from Space, undergraduate earth and environment course
University of Leeds
Lead instructor: Martyn Chipperfield

Teaching Assistant, autumn term 2008
Climate Change: The Physical Science Basis, MRes course
University of Leeds
Instructor: Piers Forster

Teaching Assistant, winter quarters 2005 and 2006
The Atmosphere, undergraduate earth science course
University of California, San Diego
Instructor: Sam Iacobellis

Instructor, summer 1998 and summer 1999
Young Scholars Program, summer mathematics enrichment for students grades 7-12
University of Chicago

Instructor, summer 1998 and summer 1999
SESAME Program, mathematics training for elementary teachers in Chicago Public Schools
University of Chicago

Tutor, fall 1997–spring 1999
Junior Tutor Program, calculus tutoring for undergraduate non-math majors
University of Chicago

STUDENTS ADVISED

Stevie Mendham, MRes in physics of the earth and atmosphere, September 2008–September 2009

PUBLICATIONS

Gordon, N. D. and S. A. Klein: Time invariance of optical depth feedbacks in climate models, in preparation.

Gordon, N. D. and J. R. Norris: Artifacts in time series of ISCCP cloud properties, in preparation.

Gordon, N. D., P. M. Forster, A. K. Jonko, and K. M. Shell: An Observationally Based Constraint on Water-Vapor Feedbacks, in preparation.

Gordon, N. D. and J. R. Norris: Cluster analysis of midlatitude oceanic cloud regimes: Mean cloud properties and temperature sensitivity, *Atmos. Chem. Phys. Discuss*., 10, 1559-1593, 2010.

Korhonen, H., K. S. Carslaw, P. M. Forster, S. Mikkonen, N. D. Gordon, and H. Kokkola (2010), Aerosol climate feedback due to decadal increases in Southern Hemisphere wind speeds, *Geophys. Res. Lett.*, 37, L02805, doi:10.1029/2009GL041320.

Weaver, C. P., J. R. Norris, N. D. Gordon, and S. A. Klein, 2005: Dynamical controls on sub-global climate model grid-scale cloud variability for Atmospheric Radiation Measurement Program (ARM) case 4, *J. Geophys. Res.*, 110, D15S05, doi:10.1029/2004JD005022.

Gordon, N. D., J. R. Norris, C. P. Weaver, and S. A. Klein, 2005: Cluster analysis of cloud regimes and characteristic dynamics of midlatitude synoptic systems in observations and a model, *J. Geophys. Res.*, 110, D15S17, doi:10.1029/2004JD005027.

Seager, R., R. Murtugudde, N. Naik, A. Clement, N. Gordon, and J. Miller, 2003: Air-sea interaction and the seasonal cycle of the subtropical anticyclones, *J. Clim.*, 16 (12), 1948-1966.

Seager, R., D. S. Battisti, J. Yin, N. Gordon, N. Naik, A. C. Clement, and M. A. Cane, 2002: Is the Gulf Stream responsible for Europe's mild winters?, *Q. J. Roy. Met. Soc.*, 128 (586), 2563-2586.

CONFERENCES

Talks

Time scale invariance of cloud optical depth feedbacks in models, American Geophysical Union Fall Meeting, December 3-7, 2012

Time invariance of optical depth feedbacks, Clouds and Earth's Radiant Energy System (CERES) Science Team Meeting, Livermore, CA, October 4-6, 2011

Time invariance of optical depth feedbacks, Department of Energy Climate and Earth System Modeling Meeting, Washington, DC, September 19-22, 2011

Observationally based estimates of climate feedbacks, American Geophysical Union Fall Meeting, San Francisco, CA, December 2009

Clouds in a changing climate: Discovering long-term trends in cloud properties, San Diego Association of Geologists monthly meeting, San Diego, CA, August 2007

Cluster analysis of cloud regimes and characteristic dynamics of midlatitude synoptic systems in observations and a model, 16th Conference on Climate Variability and Change, 2005 American Meteorological Society Annual Meeting, San Diego, CA, January 2005

Cluster analysis of midlatitude synoptic cloud regimes in observations and models, Atmospheric Radiation Measurement (ARM) Cloud Parameterization and Modeling Working Group Meeting, Broomfield, CO, October 2003

Physical characteristics of sub-grid scale cloudiness, ARM Science Team Meeting, Broomfield, CO, April 2003

Posters

Cloud Optical Depth Dependence on Temperature from Ground-based Observations, American Geophysical Union Fall Meeting, December 3-7, 2012

Time invariance of low-cloud albedo feedbacks, Physics of Weather and Climate Models Workshop, Pasadena, CA, March 20-23, 2012

Time invariance of low-cloud albedo feedbacks, American Geophysical Union Fall Meeting, San Francisco, CA, December 5-9, 2011

Time invariance of optical depth feedbacks, World Climate Research Programme Open Science Conference, Denver, CO, October 24-28, 2011

Time invariance of optical depth feedbacks, Cloud Feedback Model Intercomparison Project Conference, Exeter, UK, June 6-10, 2011

Observationally based estimates of cloud feedbacks, Gordon Research Conference, New London, NH, July 2009

Will global warming change clouds? American Geophysical Union Fall Meeting, San Francisco, CA, December 2007

Cluster analysis of cloud regimes and characteristic dynamics of mid-latitude synoptic systems, ARM Science Team Meeting, Albuquerque, NM, March 2004

Identifying meteorological regimes using satellite data, American Geophysical Union Fall Meeting, San Francisco, CA, December 2003

Cloud regime analyses for case 4, ARM Cloud Parameterization and Modeling Working Group Meeting, Broomfield, CO, October 2003

Towards parameterization of frontal mesoscale circulations and cloudiness in GCMs based on ARM observations, ARM Science Team Meeting, St. Petersburg, FL, April 2002

TRAINING

Learning and Teaching in Tutorials, Seminars, Problem Classes, and Workshops, University of Leeds, October 2008

Assessing Student Work, University of Leeds, October 2008

International Climate Change Conference: Bringing Scientists Together, British Council, Birmingham, England, March 2007

Communicating Climate Change: Science and Media Networking for the Future, British Council USA, Washington, DC, November 2006

SERVICE

Reviewer, *Journal of Climate*, 2011-2013

Reviewer, *Journal of Applied Meteorology and Climatology*, 2012

Reviewer, *Journal of Geophysical Research*, 2004–05, 2011

Reviewer, *Journal of the Atmospheric Sciences*, 2010

Reviewer, *Climate Dynamics*, 2004–05

Volunteer, Work-a-thon for Peace and Justice, Peace Resource Center, San Diego, CA, 2005

Volunteer Poll Watcher, Promote and Protect the Vote, San Diego, CA, 2004

AWARDS

California Space Institute National Space Grant Fellowship, 2005

Scripps Institution of Oceanography Graduate Scholarship, 2001

COMPUTER SKILLS

Programming in Matlab, C, and Python; Microsoft suite; UNIX/Linux, Mac, and PC

REFERENCES

Dr. Piers Forster
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School of Earth and Environment
University of Leeds
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Dr. Joel Norris
Associate Professor of Climate and Atmospheric Sciences
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